



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)



Home

Meetings

Members

Officers

Newsletter

E. Iowa DX Bulletin

Buy-Sell-Trade

DXCC Card Checking

About EIDX

History

Constitution & Bylaws

DX Resources

The Eastern Iowa DX Bulletin

For September 22, 2023 to September 29, 2023

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article. The articles are ordered by the entity's *official* callsign prefix, callsigns used are in **bold**, and dates of operation are highlighted in **red**. Hot links are provided for QSL and other information wherever possible. Articles will remain in *The Bulletin* while active with a 5-week maximum.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Quick jump to:

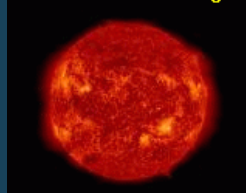
[Propagation](#)

[Contest Calendar](#)



Solar-Terrestrial Data

27 Sep 2023 1836 GMT
SFI:165 SN: 122
A-Index: 32
K-Index: 3
X-Ray: C1.1
304A: 152.0 @ SEM
Ptn Flx: NoRpt
Elc Flx: NoRpt
Aurora: 3/n=1.99
Mag (Bz): -3.2
Solar Wind: 424.2
Geomag Field UNSETTLD
Sig Noise Lvl S2-S3
Current Solar Image



<http://www.n0nbh.com>
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Solar data courtesy of:
Solar Data Banners & Widgets

2529

3D2/R, ROTUMA. Darren, VK4MAP is QRV as **3D2RAT** until September 29th. Activity is holiday style on 80 to 10 meters using SSB. QSL direct to [VK4MAP](#).

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

4L, GEORGIA. Giovanni, IW7EHC, stays in Georgia from September until December and operates as **4L/IW7EHC** from Batumi. QSL via [IW7EHC](#).

-[DXNL # 2369 August 30, 2023] (0901-1006)

4U/IT, ITU HQ. As part of WRC-23 Preparation, delegates are QRV as 4U1ITU in their spare time until the end of the month. Activity is on the HF bands. QSL via operators' instructions.

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

4W, TIMOR-LESTE. Satoshi, JH2EUV is QRV as **4W/JH2EUV** from Dili until October 13th. Activity is in his spare time on 80 to 6 meters. QSL to [JH2EUV](#).

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

4X, ISRAEL. Special stations **4XØ1G** from Beit Zeida (Holyland Square OØ5HG), **4XØ2G** from Daliyot Forest (Holyland Square PØ5HG), **4XØ3G** from Rujm el-Hiri (Holyland Square OØ4HG) and **4XØ4G** from Juhader Stream (Holyland Square QØ5HG) will be

active on **September 22nd-23rd**. QSLs via [4X6ZM](https://www.iarc.org/golan) and log search on <https://www.iarc.org/golan>.

-[425DXN # 1689 September 16, 2023] (0922-0929)

5X, UGANDA. Czech DXpedition Group's members OK1BOA, OK1FCJ and OK6DJ will be active as **5X3K** from Uganda from **September 28th to October 7th**, with "full operation" expected on October 1st – 6th. They will operate SSB, CW, RTTY and FT8 on 160-10 meters. QSL via LoTW, [ClubLog's OQRS](https://www.clublog.org), or via [OK6DJ](https://www.cdxp.cz). See [https://www.cdxp.cz/](https://www.cdxp.cz) for more information.

-[425DXN # 1685 August 19, 2023] (0922-1006)

5Z, KENYA. Rick, MØLEP is QRV as **5Z4/MØLEP** and will be here **during the month of September**. Activity is on the HF bands. QSL via LoTW.

-[ARRL DX Bulletin # 36 September 7, 2023] (0908-0929)

6W, SENEGAL. Elvira, IV3FSG will be active again as **6W/IV3FSG** from Senegal from **September 26th to October 16th**. Usually, she operates SSB and digital modes in her spare time. QSL via [ClubLog's OQRS](https://www.clublog.org), or direct to [IK2DUW](https://www.clublog.org).

-[425DXN # 1690 September 23, 2023] (0922-1020)

6Y, JAMAICA. Dan, MØCVZ will sign **6Y5DH** from **September 10th to 30th** (10m - 40m, SSB). QSL via [ClubLog's OQRS](https://www.clublog.org) or eQSL.

-[DXNL # 2370 September 6, 2023] (0908-0929)

9Y, TRINIDAD & TOBAGO. Celebrating Trinidad and Tobagos' 47th Republic Day, special callsign **9Y47RD** will be active on **September 22nd-25th**. QSL via LoTW.

-[425DXN # 1690 September 23, 2023] (0922-0929)

A2, BOTSWANA. Sajid, VA3QY plans to be QRV as **A22EW** **until October 8th**. Activity is on 20 to 10 meters, and possibly 6 meters, using CW and SSB. QSL via [KB2MS](https://www.clublog.org) or eQSL.

-[ARRL DX Bulletin # 36 September 7, 2023] (0908-1006)

A6, UNITED ARAB EMIRATES. Taking part in the celebrations of Saudi National Day (September 23rd), the Emirates Amateur Radio Society will operate special callsign **A6ØARS** on **September 17th-23rd**. QSL via [EA7FTR](https://www.clublog.org). Individual operators may append a serial number to the special callsign, and be QRV as A6ØARS/Ø, A6ØARS/1, etc. (see qrz.com for the QSL routes).

-[425DXN # 1689 September 16, 2023] (0915-0929)

A9, BAHRAIN. Also taking part in the celebrations of Saudi National Day, the Bahrain Amateur Radio Society will operate special callsign **A91ARS** on **September 17th-23rd**. QSL via [EC6DX](https://www.clublog.org).

-[425DXN # 1689 September 16, 2023] (0915-0929)

DL, GERMANY. Special callsign **DR45HAAN** celebrates the 45th anniversary of the DARC club Haan (DOK R24) **until September 30th**. QSL via [DL7ET](https://www.clublog.org).

-[DXNL # 2372 September 20, 2023] (0922-0929)

DL, GERMANY. Look for **DJ1JB/p**, **DJ4EL/p** and **DJ5TM/p** to be active from IOTA group EU-042 from **September 28th to October 4th**. Their main QTH will be Pellworm Island, with side trips to nearby Grode, Suderoog and Norderoogsand.

-[425DXN # 1690 September 23, 2023] (0922-1006)

DL, GERMANY. The special event callsign **DP375WF** (DOK 375WF) will be activated by radio amateurs from and around Muenster to remember the 375-year anniversary of the Peace of Westphalia, ending the Thirty Years' War in 1648. An award is available; see <https://www.qrz.com/db/DP375WF>.

-[DXNL # 2371 September 13, 2023] (0915-1006)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of September 22, 2023:

1. P5	DPRK (North Korea)	11. 3Y/B	Bouvet Island
2. BS7H	Scarborough Reef	12. ZS8	Prince Edward & Marion Islands
3. CEØX	San Felix Islands	13. KH4	Midway Island
4. BV9P	Pratas Island	14. VKØM	Macquarie Island
5. KH7K	Kure Island	15. PYØS	Saint Peter And Paul Rocks
6. KH3	Johnston Island	16. PYØT	Trindade & Martim Vaz Islands
7. FT/G	Glorioso Island	17. KP5	Desecheo Island
8. 3Y/P	Peter 1 Island	18. VP8S	South Sandwich Islands
9. FT5/X	Kerguelen Island	19. KH5	Palmyra & Jarvis Islands
10. YVØ	Aves Island	20. ZL9	New Zealand Subantarctic Islands

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF September 22, 2023] (0922-1006)

EA6, BALEARIC ISLANDS. Andreas, DK5ON will be active from Mallorca Island (EU-004, ARLHS BAL-010 / WLOTA 1902) as **EA6/DK5ON** (6m - 40m, CW, SSB, digital) from **September 14th to 28th**. QSL via [DK5ON](#), LoTW or [ClubLog's OQRS](#).

-[DXNL # 2371 September 13, 2023] (0915-0929)

F, FRANCE. The special event stations **TM23RBY** (QSL via [F8EFU](#)), **TM23RUGB** (QSL via [F5KHG](#)), and **TM63RWC** (QSL via [F4KLW](#)) operate around the Rugby World Championship **until October 28th** on 160-6m and via QO-100.

-[DXNL # 2372 September 20, 2023] (0922-1027)

F, FRANCE. Special event station **TM23RUGB** will be QRV from Tonneins from **September 10th to 13th**, next on **September 21st to 24th**, and then on **October 16th to 22nd**, during the Rugby World Cup. Activity will be on the HF bands. QSL via [F5KHG](#).

-[ARRL DX Bulletin # 36 September 7, 2023] (0908-0929)

FO, FRENCH POLYNESIA. Vincent, K6VVK will be active holiday style as **FO/K6VVK** from two French Polynesia islands, namely Moorea (OC-046) on **September 25th to October 1st** and Rangiroa (OC-066) on **October 2nd-6th**. He will operate SSB, CW and FT8/FT4 on the HF bands and 6 meters. He will upload his log to LoTW, eQSL and ClubLog; paper QSLs will not be provided.

-[425DXN # 1689 September 16, 2023] (0922-1006)

HL, SOUTH KOREA. Look for **DS1TUW/2** to be active from Taeijak Island (AS-090) on **September 23rd-24th**. He will operate FT8 and CW on 40-6 meters. QSL via LoTW; [ClubLog's OQRS](#) will be available for direct cards.

-[425DXN # 1687 September 2, 2023] (0922-0929)

HV, VATICAN CITY. Fabio, I4UFH will be active from **HVØA**, Vatican City on **September 23rd**. QSL via LoTW, or direct to [IKØFVC](#).

-[425DXN # 1690 September 23, 2023] (0922-0929)

HZ, SAUDI ARABIA. Special callsigns **HZ93ND**, **7Z93ND** and **8Z93ND** will be used by the Saudi Amateur Radio Society (HZ1SAR) to celebrate Saudi National Day on **September 10th-25th**. The logs will be uploaded to ClubLog. See qrz.com for more information. Based on the number of lunar years, Saudi National Day commemorates the renaming of the Kingdom of Nejd and Hejaz to the Kingdom of Saudi Arabia (September 23, 1932). Other national societies of Gulf Cooperation Council's neighboring countries that might join the celebrations include the Kuwait Amateur Radio Society as **9K9KSA** (QSL via [EC6DX](#)), and the Royal Omani Amateur Radio Society as **A43KSA**. QSL via [EC6DX](#).

-[425DXN # 1689 September 16, 2023] (0915-0929)

K, UNITED STATES. Members of the Port City Amateur Radio Club (W1WQM) will be active as **K1W** from White Island, Isles of Shoals (NA-217) on **September 16th-25th**. QSL

via [K1RX](#).

-[425DXN # 1688 September 9, 2023] (0915-0929)

K, UNITED STATES. The Shy-Wy Amateur Radio Club operates the callsign **W7Y** in a "Come and get Wyoming" special event from **September 22nd until October 2nd**, designed to help operators world-wide to log the rather rare state of Wyoming. See also: <https://shywyarc.net/wp/comeandgetwyoming/>

-[DXNL # 2372 September 20, 2023] (0922-1006)

KH2, GUAM. A group of Japanese operators operate from Guam with the callsigns **NH8A/NH2** (SSB, QSL only via LoTW), **AHØF/KH2** (CW, QSL direct to [JA2NQG](#)), **AH2CW** (CW, SSB, QSL only via LoTW), **AHØFM/KH2** (FM and SSB, QSL via [JA2UAY](#)), **KB6O/KH2** (SSB, FT8, QSL via LoTW), and **NN2F/KH2** (SSB, QSL via LoTW).

-[DXNL # 2372 September 20, 2023] (0922-1013)

KH2, GUAM. Uli, DL2AH closed down his station on Rota (**KHØ/DL2AH**) on September 14th and now moves on to Guam (OC-026), where he expects to be QRV starting **September 16th for two weeks**. His focus will be on FT8 and FT4 operation on 20m - 10m. QSL via [DL2AH](#).

-[DXNL # 2371 September 13, 2023] (0915-0929)

OHØ, ALAND ISLANDS. Operators PA2A, PE1NYQ, PG2K and PAØVHA will be QRV as **OHØRY** from Mellanon Island from **September 17th to 30th**. Activity will be on the HF bands. This includes being an entry in the upcoming CQ World Wide RTTY DX Contest. QSL via operators' instructions.

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

ON, BELGIUM. Special callsign **OP1ØKF** marks the 10th anniversary of King Philippe's coronation **during September**. An award is also available: <https://www.onz.be/op10kf-award-request/>. QSL via bureau, eQSL.

-[DXNL # 2369 August 30, 2023] (0901-0929)

ON, BELGIUM. Special event station **OO35ATH** is QRV during the **month of September** to celebrate the 35th anniversary of the Radio Club de Ath. QSL via operators' instructions.

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-0929)

OZ, DENMARK. Dieter, DF2SD will be active as **OV9R** from Fano Island (EU-125) and National Park Vadehavet from **September 16th to 30th**, including an entry in the CQ WW RTTY DX Contest. QSL via [ClubLog's OQRS](#), LoTW and eQSL.

-[425DXN # 1689 September 16, 2023] (0915-0929)

PACIFIC TRIP. Uli, DL2AH is going to be active again from the Pacific:

KH2/DL2AH Guam (OC-026), **September 16th - 30th**

V7... Majuro (OC-029), Marshall Is. **October 3rd - 15th**

V63AH Kosrae (OC-059), Micronesia **October 18th - 30th**

He will operate SSB and FT8 on 80-6 meters. QSL via LoTW, eQSL, or direct to [DL2AH](#).

-[425DXN # 1685 August 19, 2023] (0915-1103)

PJ2, CURACAO. Gabor, HA3JB will be QRV as **PJ2/HA3JB** from **September 16th to 26th**. Activity will be on 80 to 6 meters using CW, SSB, RTTY, and FT8. This includes being an entry in the upcoming CQ World Wide RTTY DX contest. QSL direct to [HA3JB](#).

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

PJ2, CURACAO. Jeff, K8ND is QRV as **PJ2ND** from Signal Point **until mid-October**.

Activity is on 160 to 10 meters using CW and SSB. He may be active as **PJ2T** in

upcoming contests. QSL PJ2ND via [K8ND](#) and PJ2T via [KU9C](#).

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-1006)

SM, SWEDEN. Gaby, DF9TM and Frank, DL2SWW have been active as **SD7M** and **SD7W**, respectively, from Sturko Island (EU-138) since September 18, and will remain there **until September 23rd or 24th**. All QSOs will be uploaded to Club Log and confirmed automatically via the bureau.

-[425DXN # 1690 September 23, 2023] (0922-0929)

SM, SWEDEN. Frank, DHØJAE will be on Hanoe (EU-138, ARLHS SWE 027, JO76ka) from September 18th to 24th and operate CW/SSB on the HF bands as **SM/DHØJAE**. QSL via [DHØJAE](#) or [ClubLog's QQRS](#).

-[DXNL # 2371 September 13, 2023] (0915-0929)

SV, GREECE. Members of the Salamis Radio Amateur Group will be QRV with special call **SX48ØSNB** from **September 16th to 30th** to commemorate the 480 BC Battle of Salamis. QSL on LoTW.

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

SV9, CRETE. Seppo, OH1VR will be QRV as **SV9/OH1VR** near Chania from **September 28th to October 3rd**. Activity will be on 160 to 6 meters using mainly CW. QSL direct to [OH1VR](#).

-[ARRL DX Bulletin # 38 September 21, 2023] (0922-1006)

SV9, CRETE. John, SV9CJO is QRV as special event station **SV9/J43ND** during **all of September** representing a social action against drugs. QSL via LoTW.

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-0929)

T2, TUVALU. The Rebel DX Group (<https://www.facebook.com/rebeldxgroup>) will be active as **T22T** from Tuvalu (OC-015) from **September 21st to October 9th**. Plans are to have up to ten stations QRV on 160-6m FT8 (seven stations operating either F/H and normal mode), CW (two stations) and SSB (one station). See <https://www.qrz.com/db/T22T> for the band plan. QSL via [ClubLog's QQRS](#).

-[425DXN # 1687 September 2, 2023] (0915-1013)

T32, EASTERN KIRIBATI. Ken, KH6QJ is QRV as **T32AZ** from Kiritimati, IOTA OC-024, **until October 17th**. QSL to [KH6QJ](#).

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-1006)

T7, SAN MARINO. Celebrating "Sammarinesi nel mondo" (San Marino nationals around the world), members of the ARRSM Radio Club will operate special event station **T71SNM** on **September 24th**. QSL direct to [T7ØA](#).

-[425DXN # 1690 September 23, 2023] (0922-0929)

T8, PALAU. Taka, [JA1LRV](#), will be active as **T88LR** from the Palau VIP Guest Hotel from **September 26th to October 3rd**. His companion Take, JA1RKL, still awaits his T8 callsign. QSL via home calls.

-[DXNL # 2372 September 20, 2023] (0922-1006)

TI, COSTA RICA. Members of The Radio Club of Costa Rica (TIØRC) are QRV with special call sign **TI7ØRC** during **September** to celebrate the club's 70th anniversary. QSL via LoTW.

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-0929)

TK, CORSICA. Thomas, DL1ASA is QRV as **TK/DL1ASA/p** for the **next few weeks**. He will also try to be active from IOTA EU-164, various SOTA, WWFF, and various Lighthouse references. Activity is holiday style on the HF bands. QSL to [DL1ASA](#).

-[ARRL DX Bulletin # 36 September 7, 2023] (0908-0929)

V7, MARSHALL ISLANDS. Bob, N7XR plans to be QRV as **V73XR** from Kwajalein, IOTA OC-028, **beginning in September and active for three months**. QSL via [ClubLog's OQRS](#).

-[ARRL DX Bulletin # 35 August 31, 2023] (0901-0929)

VK, AUSTRALIA. "Amateur Radio", the official journal of the Wireless Institute of Australia, will reach 90 years of continuous publication in October. To mark this milestone, the WIA has obtained the special event call sign **VK9ØAR** for use **until December 31st** by any member of the WIA as well as any affiliated club. QSL via LoTW and [MØOXO's OQRS](#).

-[425DXN # 1690 September 23, 2023] (0922-1013)

VK, AUSTRALIA. Operated by a number of YL operators in Tasmania (VK7) and around the rest of Australia, special callsign **VI7ALARA** is active on the HF bands **until November 8th** to mark the Australian Ladies Amateur Radio Association's meet (<http://www.alara.org.au/>) to be held in Hobart. QSL via [ClubLog's OQRS](#).

-[425DXN # 1686 August 26, 2023] (0825-0929)

VK9L, LORD HOWE ISLAND. Bob, W7YAQ and Al, K7AR will be active as **VK9LAA** from Lord Howe Island (OC-004) from **September 20 to October 4**, including an entry in the CQ WW RTTY DX Contest (September 23-24). They will run two stations on 160-6 meters. QSL via [ClubLog's OQRS](#), LoTW, or via [W7YAQ](#).

-[425DXN # 1685 August 19, 2023] (0915-1006)

XV, VIET NAM. Greg, **XV9BPO** was active on 15 meters using CW around 1500z. QSL via [EA5GL](#).

-[ARRL DX Bulletin # 37 September 14, 2023] (0915-1006)

XZ, MYANMAR. Akio, JE2QIZ, remains active as **XZ2B** **until September 30th** on 15-6m CW. Digital modes are not permitted. QSL via [JH3SIF](#), LoTW, [ClubLog's OQRS](#).

-[DXNL # 2372 September 20, 2023] (0922-0929)

ZA, ALBANIA. Antonis, SV1ENG will be active holiday style as **ZA/SV1ENG** from Lucove, Albania from **September 22nd to October 1st**. Plans are to operate mostly CW, and possibly some SSB on 40-10 meters. QSL via [ClubLog's OQRS](#), or via [SV1ENG](#).

-[425DXN # 1688 September 9, 2023] (0922-1006)

ZA, ALBANIA. Chris, OE6VCG, will be active as **ZA/OE6VCG** from **September 20th until October 1st** on FT4/8 and JT65. QSL via [OE6VCG](#), LoTW, eQSL.

-[DXNL # 2372 September 20, 2023] (0922-1006)

ZD9, TRISTAN DA CUNHA ISLANDS. Yuris, YL2GM, activates Tristan da Cunha (AF-029) from **September 24th until October 22nd** as **ZD9W** on 160-6m on CW, SSB, and FT8. For more details see: <https://lral.lv/zd9w/index.html>. QSL via LoTW (upload after his return).

-[DXNL # 2372 September 20, 2023] (0922-1020)

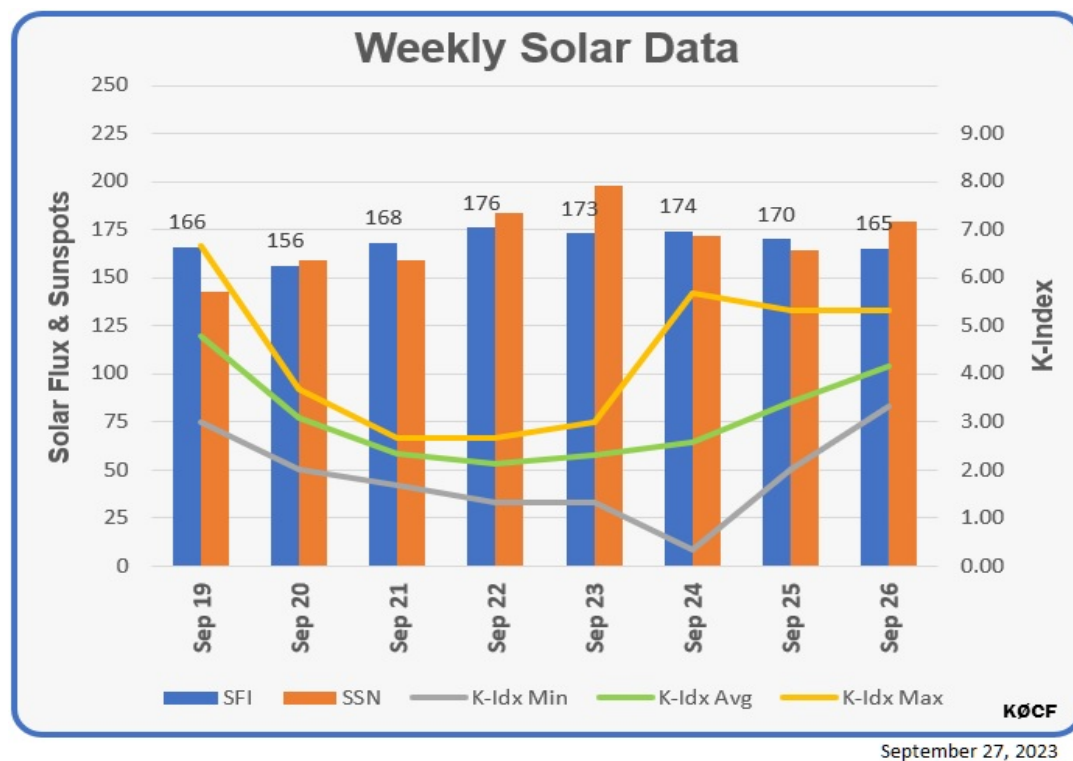
ZF, CAYMAN ISLANDS. Mark, W5LAC will be "attempting portable QRP operation" as **ZF2MS** from Grand Cayman Island (NA-016) on **September 22nd-29th**. Look for him on 20-6 meters FT8 or SSB. QSL via [W5LAC](#).

-[425DXN # 1690 September 23, 2023] (0922-0929)

ZL7, CHATHAM ISLANDS. Holger, ZL3IO will be active as **ZL7IO** from Waitangi, Chatham Islands (OC-038) on **September 15th-29th**, hopefully including an entry in the CQ WW DX RTTY Contest (September 23rd-24th). "Station set up will likely take a number of days", he says, but eventually he expects to be QRV on 160-10 meters CW, RTTY, SSB, FT8 and FT4. He plans to return at the end of October (CQ WW DX SSB), and at the end of November (CQ WW DX CW). QSL via LoTW, [ClubLog's OQRS](#), or via [DK7AO](#).

-[425DXN # 1687 September 2, 2023] (0915-0929)

Propagation

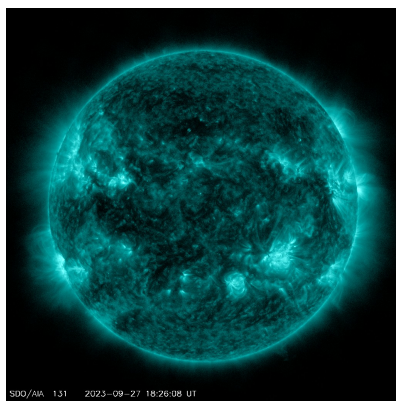


The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (K-Idx) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.



Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!

Propagation Summary

For the 8 day period from Tuesday, September 19th through yesterday, September 26th.

The average solar flux was up 21 points from the previous week, with a weekly high of 176 on Friday, September 22nd, following a low of 156 on September 20th.

The average sunspot count was up by 62 points for the week, peaking at 198 on Saturday, September 23rd after a weekly low of 143 on September 19th.

The Planetary K-index weekly average was 4.4 and the maximum was 6.7 on Tuesday, September 19th, resulting in moderate geomagnetic storm conditions.

Solar flare activity since September 19th has been high with 13 flares, the largest of which was an M 8.7 event on Thursday, September 21st.

Propagation Data

Major solar flares, Thursday, September 19th through 1314 UTC, September 27.

#	Date	UTC	Mag.
1	Sep 24	1500	M 1.0
2	Sep 24	0328	M 4.4
3	Sep 24	0307	M 1.2
4	Sep 23	2043	M 1.5
5	Sep 22	2300	M 1.9
6	Sep 22	1715	M 1.5
7	Sep 22	1623	M 1.4
8	Sep 22	0336	M 1.2
9	Sep 21	1254	M 8.7
10	Sep 20	1419	M 8.2
11	Sep 19	2014	M 4.0
12	Sep 19	0938	M 1.8
13	Sep 19	0355	M 1.1

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Sep 27	40%	15%	168
Sep 28	45%	15%	168
Sep 29	35%	10%	162

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA once a week on Monday.

Date	Flux	Kp
Sep 27	164	2
Sep 28	160	2
Sep 29	160	2
Sep 30	158	2

Date	Flux	Kp
Oct 1	150	2
Oct 2	145	2
Oct 3	150	2
Oct 4	155	2

Date	Flux	Kp
Oct 5	155	2
Oct 6	155	2
Oct 7	160	2
Oct 8	160	2

Highs for Cycle 25

Solar Flux: 234 on January 15, 2023.

Sunspots: 227 on July 11, 2023.

Favorite Propagation web sites

Excellent Maximum Usable Frequency map: <https://prop.kc2g.com/>

<https://www.spaceweather.com/>

<https://www.solarham.net/>

<https://dx.qsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters.

However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

Selected Upcoming Contests

Contest	Start		End		Web Site
CQ Worldwide DX Contest, RTTY	Sep 23	0000Z	Sep 24	2400Z	Rules
Maine QSO Party	Sep 23	1200Z	Sep 24	1200Z	Rules
UK/EI DX Contest, SSB	Sep 30	1200Z	Oct 1	1200Z	Rules
Collegiate QSO Party	Oct 7	0000Z	Oct 8	2359Z	Rules
Oceania DX Contest, Phone	Oct 7	0600Z	Oct 8	0600Z	Rules
Russian WW Digital Contest	Oct 7	1200Z	Oct 8	1159Z	Rules
California QSO Party	Oct 7	1600Z	Oct 8	2200Z	Rules
Makrothen RTTY Contest	Oct 14	0000Z	Oct 14	0800Z	Rules

	Oct 14	1600Z	Oct 14	2400Z	
	Oct 15	0800Z	Oct 15	1600Z	
Nevada QSO Party	Oct 14	0300Z	Oct 15	2100Z	Rules
Oceania DX Contest, CW	Oct 14	0600Z	Oct 15	0600Z	Rules
Scandinavian Activity Contest, SSB	Oct 14	1200Z	Oct 15	1200Z	Rules
Arizona QSO Party	Oct 14	1500Z	Oct 15	0500Z	Rules
Pennsylvania QSO Party	Oct 14	1600Z	Oct 15	0400Z	Rules
	Oct 15	1300Z	Oct 15	2200Z	
South Dakota QSO Party	Oct 14	1800Z	Oct 15	1800Z	Rules
ARRL School Club Roundup	Oct 16	1300Z	Oct 20	2359Z	Rules
JARTS WW RTTY Contest	Oct 21	0000Z	Oct 22	2400Z	Rules
10-10 Int. Fall Contest, CW	Oct 21	0001Z	Oct 22	2359Z	Rules
New York QSO Party	Oct 21	1400Z	Oct 22	0200Z	Rules
YLRL DX/NA YL Anniversary Contest	Oct 21	1400Z	Oct 23	0200Z	Rules
Stew Perry Topband Challenge	Oct 21	1500Z	Oct 22	1500Z	Rules
Illinois QSO Party	Oct 22	1700Z	Oct 23	0100Z	Rules
CQ Worldwide DX Contest, SSB	Oct 28	0000Z	Oct 29	2359Z	Rules
Ukrainian DX Contest	Nov 4	1200Z	Nov 5	1200Z	Rules
ARRL Sweepstakes Contest, CW	Nov 4	2100Z	Nov 6	0300Z	Rules

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]